

**GROUNDWATER PERFORMANCE
MONITORING REPORT**

June 2014 Sampling

**ROTH BROS. SMELTING CORP.
CORRECTIVE ACTION MANAGEMENT UNIT (CAMU)**

**Prepared For:
Metalico Aluminum Recovery, Inc.
6223 Thompson Road
P.O. Box 88
East Syracuse, New York 13057**

**Prepared By:
Barton & Loguidice, D.P.C.
290 Elwood Davis Drive
Box 3107
Syracuse, New York 13220**



Engineers • Environmental Scientists • Planners • Landscape Architects

Table of Contents

	Page
1.0 INTRODUCTION	1
2.0 CAMU GROUNDWATER PERFORMANCE MONITORING	2
2.1 Monitoring Well Inspection	2
2.2 Groundwater Monitoring Work	3
(a) Groundwater Contour Map	3
(b) Groundwater Sampling & Analysis	3
(c) Monitoring Results	3

List of Figures

Figure 1 Groundwater Contour Map

List of Tables

Table 1 CAMU Monitoring Schedule

Table 2 Groundwater Level Data

Table 3 Groundwater Performance Monitoring Data

List of Appendices

Appendix A Field Sampling Data Sheets/Chain of Custody Record

Appendix B Analytical Laboratory Report (ALS Environmental)

1.0 INTRODUCTION

This report presents the results of the June 2014 groundwater monitoring performed at the Corrective Action Management Unit (CAMU) located at the former Wabash Aluminum Alloys, LLC (Wabash) facility located at 6223 Thompson Road, East Syracuse, Onondaga County, New York (Site). The Plant #2 portion of the site is now owned by Metalico Syracuse Realty, Inc. (MSR), and Thompson Corners, LLC owns the Plant #1 portion of the Site.

Metalico Aluminum Recovery, Inc. (MARI) currently operates a scrap metal recycling facility and a secondary aluminum smelting operation at the MSR portion of the site. By agreement with Wabash, MARI assumed “Wabash’s obligations to conduct ongoing environmental monitoring and testing at the Site” under a Consent Order with the New York State Department of Environmental Conservation (NYSDEC) that was entered into by Roth Bros. Smelting Corp. (Index # C7-0001-94-10), the owner of the Site at the time the CAMU was constructed. To satisfy this contractual obligation, MARI retained Barton & Loguidice, D.P.C., to prepare this report.

This report has been prepared in accordance with the site Operations and Maintenance Plan (Malcolm Pirnie, 1997) and the subsequent Sampling & Analysis Plan revisions [Appendix D to the Operations and Maintenance Plan] as a result of letter correspondence with NYSDEC in 2002, and the approval letter from NYSDEC in April 2011.

Samples were collected from eight (8) monitoring well locations on June 11, 2014. All samples were collected by personnel from Barton & Loguidice, D.P.C. (B&L) and were submitted to and analyzed by ALS Environmental (ALS) in Rochester, New York.

Figure 1 shows the location of the Plant #1 and Plant #2 properties. The asphalt-paved CAMU area is located north of Plant #2. The monitoring locations associated with the CAMU groundwater performance monitoring, are included on Figure 1.

Groundwater sampling was performed on a quarterly basis prior to June 2005 after which semi-annual monitoring was performed through 2010. Beginning with the June 2011 monitoring event, sampling is now performed on an annual basis in June of each year. This report addresses the data generated from the June 2014 monitoring.

2.0 CAMU GROUNDWATER PERFORMANCE MONITORING

2.1 Monitoring Well Inspection

The following monitoring wells are sampled as part of the CAMU Groundwater Monitoring Performance Program (see Figure 1):

B291	B281	B290	B401
B402R	B403	B404	MW-8R

Over the course of time, several CAMU monitoring wells have been inadvertently damaged, destroyed, or needed maintenance including:

- Monitoring well B280, formerly located north of the CAMU, was destroyed in September 2000. Based on its adjacent location, monitoring well B291 replaced monitoring well B280.
- Between the June 2004 and September 2004 sampling events, monitoring well B402 was destroyed. Monitoring well B402R was installed in November 2005 and began to be sampled for the December 2005 sampling event. The destroyed well (B402) was properly decommissioned using a rotary drilling rig on April 24, 2007.
- Monitoring well MW-8, installed as part of the 2001 Groundwater Investigation, was destroyed during construction of scrap yard improvements. Subsequently, monitoring well MW-8R was installed adjacent to the MW-8 location for inclusion in the CAMU Groundwater Performance Monitoring Program. The wellhead for monitoring well MW-8R was replaced on April 24, 2007 due to deterioration as the flush mounted well was set in a high traffic working area.
- On April 24, 2007 the area surrounding well B291 was cleared of vegetation, and the existing damaged flush-mounted well cover was removed and replaced with a stick-up-type protective casing installed in a concrete base. The wellhead was vertically surveyed relative to well B402R, with the new reference elevation being calculated at 410.86. A new, lockable well plug was installed in the well opening.
- In an effort to avoid further well damage or loss prior to the December 2008 sampling event, all of the facility monitoring wells were painted, labeled and affixed with pole extensions and flagging. The wells were also fitted with new keyed alike locks. It was also noted that all the wells had old deteriorating polyethylene tubing dedicated to each well which is not a standard field sampling practice. All of the old tubing was removed from the wells and disposed of. New tubing for each well is now utilized during each round of sampling and then removed and disposed of properly when sampling is completed.
- In late 2012 the drainage swale piping enclosure along the east side of the CAMU was extended. The extension of this enclosure eliminated access to the open surface water and sediment monitoring locations.

All of the required CAMU monitoring wells were sampled in June 2014.

2.2 Groundwater Monitoring Work

This section describes the field and laboratory procedures that were followed during this monitoring event. Table 1 provides a summary of the sampling frequency and the analytical parameters for each monitoring well for the CAMU groundwater monitoring program that began in 1998.

(a) Groundwater Contour Map

Prior to the sampling of the groundwater monitoring wells, the static water level of each monitoring well was measured. This work was performed using an electronic water level sensor capable of measuring to an accuracy of +/- 0.01 foot. The water level probe was decontaminated between wells by washing in an Alconox/water solution and rinsing with distilled water.

Figure 1 presents a groundwater contour map that reflects the water level data, which is set forth in Table 2. Table 2 also includes water level data for the eleven (11) prior groundwater sampling events.

The contour map indicates that the general groundwater flow direction at the Site is to the northeast toward the South Branch of Ley Creek. This finding is consistent with historical groundwater contour data.

(b) Groundwater Sampling & Analysis

Each of the monitoring wells was purged prior to sampling. Water surface elevations and field parameters (pH and Specific Conductance) were measured after purging and immediately prior to sample collection.

Purging of monitoring wells was performed with disposable bailers until a minimum of three (3) well volumes were removed or until the well went dry. After the monitoring wells were allowed to recharge overnight groundwater samples were collected using a low-flow peristaltic pump with new non-dedicated tubing at each location.

Collected samples were placed into clean coolers and kept on ice at 4°C until delivery to ALS Environmental.

Appendix A includes the field sampling data sheets and chain of custody records associated with this round of sampling.

(c) Monitoring Results

Table 3 provides an historical summary of the analytical groundwater data for this project, including the results of the June 2014 groundwater monitoring. Appendix B contains the analytical laboratory reports prepared by ALS Environmental (NYSDOH Laboratory I.D. #

10145). Data are highlighted, as appropriate, to indicate detected concentrations that exceed the following NYSDEC Class GA Groundwater Standards:

<u>Parameter</u>	<u>Class GA Standard</u>
pH	6.5 – 8.5 Std. Units
Lead	0.025 mg/L
Arsenic	0.025 mg/L
Aroclor 1016	0.09 ug/L*
Aroclor 1221	0.09 ug/L*
Aroclor 1232	0.09 ug/L*
Aroclor 1242	0.09 ug/L*
Aroclor 1248	0.09 ug/L*
Aroclor 1254	0.09 ug/L*
Aroclor 1260	0.09 ug/L*
Aroclor 1262	0.09 ug/L*
Aroclor 1268	0.09 ug/L*

Notes: *Limit applies to sum of all Aroclors

The results of the June 2014 sampling event indicate that the groundwater quality conditions at the CAMU have remained generally consistent since the last monitoring event and appear to correspond with historical groundwater quality data. The following sections summarize the analytical data collected during this sampling event:

pH – The Class GA standard for pH was not exceeded within any monitoring location.

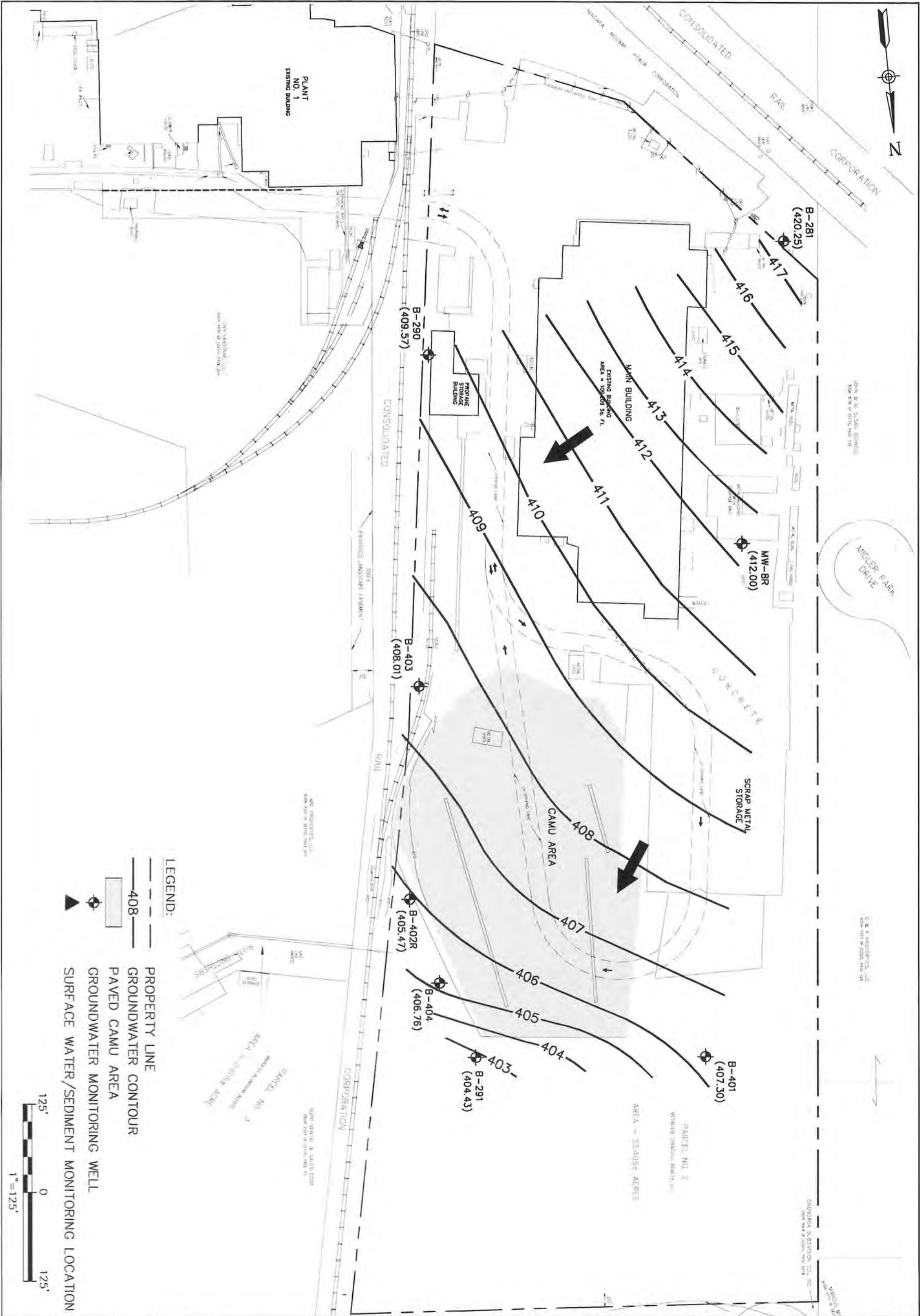
PCBs – During the June 2014 monitoring event MW-8R exceeded the NYSDEC Class GA groundwater standard for Aroclor 1254. The June 2014 detection of Aroclor 1254 (4.3 ug/L) is consistent with historical PCB results within this location. It should be noted that MW-8R is located upgradient of the CAMU. No other PCB detections were reported for the June 2014 monitoring event.

Specific Conductivity – Monitoring location MW-8R continued to exhibit elevated specific conductivity result during the 2014 monitoring event. No Class GA standard for specific conductivity is currently established. Salts used in the processes at the plant are stockpiled in a storage bay immediately adjacent to flush mounted MW-8R monitoring well. It is suspected that surface contamination is likely infiltrating the flush mounted well in the high traffic area resulting in elevated conductivity readings. The surface seal and well cover should be replaced on this monitoring well. Alternatively, this well should be pressure grouted and decommissioned to prevent further influence from operational surface contamination. Again, MW-8R is upgradient from the CAMU and not needed as a monitoring well.

Total & Dissolved Lead – Total and dissolved lead was not detected within any monitoring wells during the June 2014 monitoring event.

Total & Dissolved Arsenic – The Class GA standard of 0.025 mg/L for arsenic was exceeded within MW-8R (dissolved arsenic = 0.030 mg/L) during the June 2014 monitoring event. The total arsenic concentration (0.018 mg/L) was below the Class GA standard and it is suspected that the laboratory may have inadvertently mislabeled the samples. Total arsenic was also detected at monitoring well B290 at a concentration below the Class GA standard. No arsenic was detected within any of the remaining monitoring wells during the 2014 sampling event.

Figures



METALICO ALUMINUM RECOVERY, INC. FACILITY NO. 7102372		JUNE 2014 GROUNDWATER CONTOUR MAP	
EAST SYRACUSE		ONONDAGA COUNTY, NEW YORK	
Barton & Loguidice, D.P.C.		Date JULY 2014	Scale 1" = 125'
Figure Number 1		Project Number 1206.002	

Tables

Table 1
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Monitoring Schedule

Sampling Frequency	Parameter	Analytical Method	MDL	Well Location
Annual (June)	Arsenic (Total and Dissolved)	EPA Method 6010	3 ug/L	B281
	Lead (Total and Dissolved)		5 ug/L	B290
	PCB's	EPA Method 8082	0.050 ug/L	B291 B401 B402R B403 B404 MW-8R

Table 2
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Groundwater Elevation Summary Table

Page 1 of 2

Monitoring Well	B281		B290		B291		B401	
WELL DEPTH (FT): REFERENCE ELEVATION:	13.03 423.39		10.26 414.61		12.54 410.86		13.03 413.54	
DATE	ELEVATION	SWL	ELEVATION	SWL	ELEVATION	SWL	ELEVATION	SWL
10-Jun-14	417.39	6.00	409.52	5.09	402.73	8.13	406.14	7.40
13-Jun-13	419.88	3.51	410.23	4.38	405.34	5.52	408.43	5.11
18-Jun-12	417.31	6.08	409.25	5.36	402.37	8.49	405.11	8.43
22-Jun-11	419.27	4.12	409.71	4.90	403.35	7.51	405.50	8.04
29-Dec-10	418.82	4.57	409.63	4.98	404.14	6.72	407.42	6.12
23-Jun-10	419.53	3.86	409.69	4.92	404.81	6.05	407.79	5.75
16-Dec-09	419.28	4.11	409.71	4.90	403.95	6.91	408.48	5.06
29-Jun-09	413.75	9.64	409.50	5.11	403.53	7.33	406.84	6.70
18-Dec-08	419.31	4.08	409.63	4.98	404.43	6.43	408.39	5.15
05-Jun-08	417.18	6.21	404.35	10.26	403.72	7.14	404.62	8.92
31-Dec-07	416.66	6.73	409.77	4.84	404.73	6.13	408.33	5.21
29-Jun-07	416.44	6.95	410.38	4.23	401.96	8.90	404.83	8.71
19-Dec-06	420.25	3.14	409.57	5.04	404.43	6.43	407.30	6.24

Table 2
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Groundwater Elevation Summary Table

Page 2 of 2

Monitoring Well	B402R		B403		B404		8R	
WELL DEPTH (FT): REFERENCE ELEVATION:	12.24 409.44		11.26 411.05		16.14 410.77		10.00 415.30	
DATE	ELEVATION	SWL	ELEVATION	SWL	ELEVATION	SWL	ELEVATION	SWL
10-Jun-14	405.98	3.46	407.37	3.68	405.14	5.63	412.21	3.09
13-Jun-13	406.69	2.75	408.26	2.79	408.37	2.40	412.95	2.35
18-Jun-12	405.03	4.41	406.95	4.10	404.33	6.44	412.46	2.84
22-Jun-11	405.73	3.71	407.94	3.11	406.08	4.69	412.54	2.76
29-Dec-10	406.64	2.80	407.98	3.07	406.73	4.04	412.18	3.12
23-Jun-10	406.62	2.82	408.23	2.82	407.84	2.93	412.64	2.66
16-Dec-09	406.64	2.80	408.11	2.94	407.56	3.21	411.92	3.38
29-Jun-09	406.46	2.98	408.05	3.00	406.66	4.11	412.72	2.58
18-Dec-08	406.81	2.63	407.91	3.14	406.92	3.85	412.59	2.71
05-Jun-08	405.56	3.88	407.42	3.63	405.42	5.35	411.88	3.42
31-Dec-07	406.97	2.47	408.08	2.97	407.27	3.50	412.45	2.85
29-Jun-07	405.32	4.12	407.20	3.85	404.27	6.50	411.93	3.37
19-Dec-06	405.47	3.97	408.01	3.04	406.76	4.01	412.00	3.30

Metalico Aluminum Recovery, Inc.; Syracuse Facility
Table 3
ROTH BROS. SMELTING CORP.
Groundwater Performance Monitoring
Historical Laboratory Analytical Summary Table (Monitoring Well B281)

		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors								
		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	1016	1221	1232	1242	1248	1254	1260	1262	1268
Units		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Class GA Standard		0.025	0.025	0.025	0.025	6.5-8.5	NA	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
B281	Jun-98	-	-	< 0.002	< 0.002	6.53	2690	-	-	-	-	-	-	-	-	-
	1999	-	-	< 0.010	< 0.010	7.47	3120	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-
	Jun-00	-	-	< 0.001	< 0.001	6.72	2630	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-00	-	-	< 0.001	< 0.001	7.02	2560	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-00	-	-	< 0.001	< 0.001	7.28	1956	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-01	-	-	< 0.001	< 0.001	7.24	2020	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-02	0.037	0.017	< 0.001	< 0.001	-	-	-	-	-	-	-	-	-	-	-
	Sep-02	0.023	< 0.010	< 0.001	< 0.001	6.86	3000	-	-	-	-	-	-	-	-	-
	Dec-02	-	-	< 0.001	-	7.03	2060	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-03	-	-	< 0.001	< 0.001	7.27	1063	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-03	-	-	< 0.001	< 0.001	7.32	3010	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-03	-	-	< 0.010	< 0.001	7.29	3170	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-03	0.017	< 0.001	0.002	0.001	7.27	2170	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-04	0.031	0.017	< 0.001	< 0.001	7.18	2230	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-04	-	-	< 0.001	0.001	7.47	2940	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-04	-	-	< 0.001	< 0.001	7.03	2990	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-04	-	-	0.004	< 0.001	7.39	1969	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-05	-	-	< 0.001	< 0.001	7.48	3000	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-05	0.016	0.011	< 0.001	< 0.001	7.33	2170	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-05	-	-	0.001	< 0.001	7.19	2430	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-06	-	-	0.010	< 0.003	7.46	2780	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-06	-	-	0.009	0.024	7.17	2430	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-07	0.028	< 0.010	< 0.003	< 0.003	7.32	778	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-07	0.064	< 0.010	< 0.003	< 0.003	8.71	321	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-08	0.050	< 0.010	< 0.003	< 0.003	8.04	249	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-08	-	-	< 0.003	< 0.003	7.10	2215	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-09	0.035	< 0.010	< 0.003	< 0.003	7.10	1700	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Dec-09	-	-	< 0.003	< 0.003	7.00	3900	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10
	Jun-10	0.014	0.005	< 0.003	< 0.003	7.20	> 20000	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Dec-10	-	-	< 0.003	< 0.003	7.00	410	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-11	0.016	< 0.005	< 0.003	< 0.003	7.10	3600	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Jun-12	< 0.010	< 0.010	< 0.050	< 0.050	7.00	3700	-	-	-	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-13	< 0.010	< 0.010	< 0.050	< 0.050	7.02	1730	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-14	< 0.010	< 0.010	< 0.050	< 0.050	7.30	2400	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-

Table 3
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Historical Laboratory Analytical Summary Table (Monitoring Well B290)

		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors							
								1016	1221	1232	1242	1248	1254	1260	1262
Units		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Class GA Standard		0.025	0.025	0.025	0.025	6.5-8.5	NA	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
B290	Jun-98	-	-	41.900	< 0.020	6.94	2180	-	-	-	-	-	-	-	-
	1999	-	-	< 0.010	0.720	7.24	2370	-	-	-	-	-	-	-	-
	Jun-00	-	-	0.045	< 0.001	6.87	2410	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
	Sep-00	-	-	0.050	< 0.001	7.42	2120	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
	Dec-00	-	-	0.092	< 0.001	7.01	1784	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
	Mar-01	-	-	0.007	< 0.001	7.01	1693	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
	Jun-02	-	-	0.048	< 0.001	-	-	-	-	-	-	-	-	-	-
	Sep-02	-	-	0.008	< 0.001	6.93	2130	-	-	-	-	-	-	-	-
	Dec-02	-	-	0.042	-	7.13	1707	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
	Mar-03	-	-	0.002	< 0.001	7.38	1451	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
	Jun-03	-	-	0.059	< 0.001	7.37	2420	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
	Sep-03	-	-	0.021	< 0.001	7.17	2240	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
	Dec-03	-	-	0.008	0.002	8.08	1322	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
	Mar-04	-	-	< 0.001	< 0.001	7.49	1590	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
	Jun-04	-	-	0.001	< 0.001	7.45	1711	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
	Sep-04	-	-	0.008	< 0.001	7.24	2410	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
	Dec-04	-	-	< 0.001	0.003	7.41	1822	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
	Mar-05	-	-	0.013	< 0.001	7.52	2450	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
	Jun-05	-	-	0.012	< 0.001	7.68	1663	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
	Dec-05	-	-	0.002	< 0.001	7.17	2600	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
	Jun-06	-	-	0.023	< 0.003	7.67	1676	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
	Dec-06	-	-	0.006	< 0.003	7.26	2430	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
	Jun-07	-	-	0.016	0.004	8.10	701	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
	Dec-07	-	-	0.019	< 0.003	8.47	1431	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-
	Jun-08	-	-	0.020	< 0.003	8.27	234	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
	Dec-08	-	-	0.015	< 0.003	7.74	1786	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-
	Jun-09	-	-	< 0.003	< 0.003	7.20	5400	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Dec-09	-	-	< 0.003	< 0.003	7.50	3600	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10
	Jun-10	-	-	< 0.012	< 0.003	7.10	2400	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-
	Dec-10	-	-	0.065	< 0.003	7.30	3300	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-
	Jun-11	0.011	0.009	0.007	< 0.003	7.10	2300	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Jun-12	0.036	< 0.010	0.305	< 0.050	7.10	2900	-	-	-	< 0.047	< 0.047	< 0.047	< 0.047	-
	Aug-12	0.010	< 0.010	< 0.050	< 0.050	6.90	3500	-	-	-	-	-	-	-	-
	Jun-13	0.025	< 0.010	< 0.050	< 0.050	7.07	1660	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-
	Jun-14	0.021	< 0.010	< 0.050	< 0.050	7.40	3500	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	-

Table 3
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Historical Laboratory Analytical Summary Table (Monitoring Well B291)

		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors								
								1016	1221	1232	1242	1248	1254	1260	1262	1268
Units		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Class GA Standard		0.025	0.025	0.025	0.025	6.5-8.5	NA	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
B291	Sep-00	-	-	0.007	0.001	7.31	877	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-00	-	-	0.001	0.001	7.24	848	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-01	-	-	0.003	< 0.001	7.01	752	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-02	0.012	< 0.010	< 0.001	< 0.001	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-02	< 0.010	< 0.010	0.002	< 0.001	7.4	1134	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-03	-	-	0.002	< 0.001	7.37	800	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-03	-	-	0.003	0.001	7.38	1213	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-03	-	-	< 0.001	< 0.001	7.21	898	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-03	0.012	< 0.010	0.008	0.002	8.81	804	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-04	0.020	0.016	0.002	< 0.001	7.31	860	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-04	-	-	0.001	< 0.001	7.53	1167	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-04	-	-	0.003	< 0.001	7.21	746	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-04	-	-	0.001	0.001	7.10	958	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-05	-	-	< 0.001	< 0.001	7.18	996	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-05	< 0.010	< 0.010	0.002	0.001	7.36	813	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-05	-	-	0.002	< 0.001	7.23	971	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-06	-	-	< 0.003	< 0.003	7.09	856	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-06	-	-	< 0.003	< 0.003	6.87	968	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-07	< 0.010	< 0.010	0.010	0.005	7.58	478	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-07	-	-	< 0.003	< 0.003	8.62	650	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-08	< 0.010	< 0.010	< 0.003	< 0.003	8.21	876	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-08	-	-	< 0.003	< 0.003	8.09	592	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-09	< 0.010	< 0.010	< 0.003	< 0.003	6.90	950	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Dec-09	-	-	< 0.003	< 0.003	7.30	1130	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10
	Jun-10	< 0.010	< 0.005	< 0.003	< 0.003	7.00	750	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Dec-10	-	-	< 0.003	< 0.003	7.10	900	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-11	< 0.005	< 0.005	< 0.003	< 0.003	7.10	890	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Jun-12	< 0.010	< 0.010	< 0.050	< 0.050	7.00	900	-	-	-	< 0.047	< 0.047	< 0.047	< 0.047	-	-
Jun-13	< 0.010	< 0.010	< 0.050	< 0.050	6.93	1020	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-	
Jun-14	< 0.010	< 0.010	< 0.050	< 0.050	6.70	1030	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-	

Table 3
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Historical Laboratory Analytical Summary Table (Monitoring Well B401)

		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors									
								1016	1221	1232	1242	1248	1254	1260	1262	1268	
Units		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Class GA Standard		0.025	0.025	0.025	0.025	6.5-8.5	NA	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	
B401	Jun-98	-	-	0.012	< 0.002	-	-	-	-	-	-	-	-	-	-	-	
	1999	-	-	0.061	< 0.010	6.69	1510	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	
	Jun-00	-	-	0.044	0.003	6.78	1275	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	
	Sep-00	-	-	0.350	0.002	7.29	1159	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	
	Dec-00	-	-	0.059	0.007	7.44	1180	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	
	Mar-01	-	-	0.033	< 0.001	7.26	810	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	
	Jun-02	-	-	0.210	< 0.001	-	-	-	-	-	-	-	-	-	-	-	
	Sep-02	-	-	0.060	0.002	7.48	644	-	-	-	-	-	-	-	-	-	
	Dec-02	-	-	0.013	-	7.27	925	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	
	Mar-03	-	-	0.024	< 0.001	7.32	781	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	
	Jun-03	-	-	0.010	0.003	7.66	1109	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	
	Sep-03	-	-	0.010	0.001	7.15	1126	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	
	Dec-03	-	-	0.021	0.002	8.37	791	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	
	Mar-04	-	-	0.004	< 0.001	7.48	785	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	
	Jun-04	-	-	0.031	< 0.001	7.49	1053	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	
	Sep-04	-	-	0.005	< 0.001	7.11	1030	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	
	Dec-04	-	-	0.002	< 0.001	7.21	937	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	
	Mar-05	-	-	0.003	< 0.001	7.36	1038	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-05	-	-	0.003	0.001	7.83	814	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	
	Dec-05	-	-	0.007	< 0.001	7.18	1066	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	
	Jun-06	-	-	0.042	< 0.003	7.46	986	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	
	Dec-06	-	-	0.011	< 0.003	6.39	502	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	
	Jun-07	-	-	0.008	0.003	7.46	441	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-07	-	-	< 0.003	< 0.003	8.32	691	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-	
	Jun-08	-	-	0.017	< 0.003	8.08	930	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	
	Dec-08	-	-	< 0.003	< 0.003	7.90	693	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-	
	Jun-09	-	-	< 0.003	< 0.003	6.90	1110	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
	Dec-09	-	-	< 0.003	< 0.003	7.30	1520	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	
	Jun-10	-	-	< 0.003	< 0.003	6.90	1100	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-	
	Dec-10	-	-	< 0.003	< 0.003	7.10	1250	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-	
	Jun-11	< 0.005	< 0.005	< 0.003	< 0.003	6.90	1160	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	
	Jun-12	< 0.010	< 0.010	< 0.050	< 0.050	7.00	1110	-	-	-	< 0.047	< 0.047	< 0.047	< 0.047	-	-	
	Jun-13	< 0.010	< 0.010	< 0.050	< 0.050	6.69	1260	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-	
	Jun-14	< 0.010	< 0.010	< 0.050	< 0.050	8.50	1180	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-	

Table 3
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Historical Laboratory Analytical Summary Table (Monitoring Well B402R)

		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors								
								1016	1221	1232	1242	1248	1254	1260	1262	1268
Units		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Class GA Standard		0.025	0.025	0.025	0.025	6.5-8.5	NA	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
B402R	Dec-05	-	-	0.260	0.001	7.73	3060	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	1.20	< 0.05	-	-
	Jun-06	-	-	0.003	< 0.003	8.37	2960	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-06	-	-	0.048	< 0.003	8.61	2680	0.10	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-07	-	-	0.150	0.010	8.11	1658	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-07	-	-	0.042	< 0.003	8.13	1470	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-08	-	-	0.033	< 0.003	7.33	273	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-08	-	-	0.149	< 0.003	8.27	1893	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-09	-	-	< 0.003	< 0.003	7.90	3000	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Dec-09	-	-	0.030	< 0.003	8.20	2280	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10
	Jun-10	-	-	0.028	< 0.003	8.30	> 20000	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Dec-10	-	-	0.370	< 0.003	8.40	3200	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-11	0.034	0.016	0.235	< 0.003	8.20	2800	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Jun-12	0.015	0.014	< 0.050	< 0.050	7.90	2700	-	-	-	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Aug-12	0.012	< 0.010	< 0.050	< 0.050	7.60	2400	-	-	-	-	-	-	-	-	-
	Jun-13	0.012	< 0.010	< 0.050	< 0.050	7.76	2600	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
Jun-14	< 0.010	< 0.010	< 0.050	< 0.050	7.90	2700	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-	

Table 3
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Historical Laboratory Analytical Summary Table (Monitoring Well B403)

		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors								
		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	1016	1221	1232	1242	1248	1254	1260	1262	1268
Units		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Class GA Standard		0.025	0.025	0.025	0.025	6.5-8.5	NA	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
B403	Jun-98	-	-	0.284	< 0.002	7.21	1280	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	1999	-	-	0.240	0.010	7.36	710	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.17	< 0.01	-	-
	Jun-00	-	-	0.010	0.004	7.35	402	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-00	-	-	0.007	0.003	8.41	520	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-00	-	-	0.002	0.002	8.12	970	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-01	-	-	0.004	0.003	7.54	415	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-02	-	-	< 0.001	< 0.001	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-02	-	-	0.005	< 0.001	7.11	456	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-02	-	-	0.003	-	7.52	201	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-03	-	-	0.002	< 0.001	7.97	200	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-03	-	-	0.002	< 0.001	8.03	536	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-03	-	-	0.002	< 0.001	7.61	351	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-03	-	-	0.004	0.001	8.41	235	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-04	-	-	0.003	0.002	7.44	296	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-04	-	-	0.001	0.002	7.65	681	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-04	-	-	0.001	< 0.001	7.23	662	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-04	-	-	< 0.001	< 0.001	7.52	613	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-05	-	-	< 0.001	< 0.001	7.82	1156	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-05	-	-	0.003	0.002	7.64	1135	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-05	-	-	0.002	0.001	7.18	1372	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-06	-	-	< 0.003	< 0.003	7.36	1479	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-06	-	-	< 0.003	< 0.003	7.85	1719	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-07	-	-	< 0.003	0.005	8.41	822	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-07	-	-	< 0.003	< 0.003	8.61	913	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-08	-	-	< 0.003	< 0.003	8.25	1121	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-08	-	-	< 0.003	< 0.003	7.81	771	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-09	-	-	< 0.003	< 0.003	7.40	1160	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Dec-09	-	-	< 0.003	< 0.003	7.20	1280	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10
	Jun-10	-	-	< 0.003	< 0.003	7.30	1020	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Dec-10	-	-	< 0.003	< 0.003	6.31	1080	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-11	< 0.005	< 0.005	< 0.003	< 0.003	6.90	1060	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Jun-12	< 0.010	< 0.010	< 0.050	< 0.050	7.00	960	-	-	-	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-13	< 0.010	< 0.010	< 0.050	< 0.050	7.07	970	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-14	< 0.010	< 0.010	< 0.050	< 0.050	8.00	960	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-

Table 3
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Historical Laboratory Analytical Summary Table (Monitoring Well B404)

		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors								
								1016	1221	1232	1242	1248	1254	1260	1262	1268
Units		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Class GA Standard		0.025	0.025	0.025	0.025	6.5-8.5	NA	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
B404	Jun-98	-	-	0.007	0.003	10.55	2380	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	1999	-	-	< 0.010	< 0.010	6.72	1740	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.17	< 0.01	-	-
	Jun-00	-	-	0.004	0.002	6.97	1573	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-00	-	-	0.002	0.002	7.32	1114	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-00	-	-	0.003	< 0.001	7.47	589	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-01	-	-	0.003	0.003	7.54	610	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-02	-	-	< 0.001	< 0.001	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-02	-	-	0.003	< 0.001	7.09	731	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-02	-	-	0.003	-	7.33	374	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-03	-	-	< 0.001	< 0.001	7.61	272	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-03	-	-	0.002	< 0.001	7.63	544	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-03	-	-	0.001	< 0.001	7.26	526	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-03	-	-	0.004	0.002	9.83	297	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-04	-	-	0.001	0.002	8.14	286	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-04	-	-	0.001	< 0.001	8.55	516	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-04	-	-	0.002	0.001	7.43	559	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-04	-	-	< 0.001	< 0.001	7.66	348	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-05	-	-	< 0.001	< 0.001	7.28	512	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-05	-	-	0.003	< 0.001	7.56	367	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-05	-	-	< 0.001	< 0.001	7.14	512	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-06	-	-	< 0.003	< 0.003	7.46	523	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-06	-	-	< 0.003	< 0.003	6.89	474	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-07	-	-	0.006	0.004	7.24	365	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-07	-	-	< 0.003	< 0.003	7.24	365	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-08	-	-	0.009	< 0.003	8.07	618	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-08	-	-	< 0.003	< 0.003	7.08	539	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-09	-	-	< 0.003	< 0.003	6.90	600	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
	Dec-09	-	-	< 0.003	< 0.003	7.30	610	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10
	Jun-10	-	-	< 0.003	< 0.003	6.90	350	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Dec-10	-	-	< 0.003	< 0.003	7.20	550	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-11	< 0.005	< 0.005	< 0.003	< 0.003	6.80	840	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Jun-12	< 0.010	< 0.010	< 0.050	< 0.050	7.20	830	-	-	-	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-13	< 0.010	< 0.010	< 0.050	< 0.050	7.03	590	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Jun-14	< 0.010	< 0.010	< 0.050	< 0.050	8.10	910	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	-	-

Table 3
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Historical Laboratory Analytical Summary Table (Monitoring Well 8R)

	Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors								
							1016	1221	1232	1242	1248	1254	1260	1262	1268
Units	mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Class GA Standard	0.025	0.025	0.025	0.025	6.5-8.5	NA	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
8R	Sep-02	-	-	0.004	0.001	9.21	933	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-02	-	-	0.002	-	9.62	567	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	2.60	< 0.05	-
	Mar-03	-	-	0.001	0.002	8.82	551	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.30	< 0.05	-
	Jun-03	-	-	0.002	0.002	8.59	726	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.25	< 0.05	-
	Sep-03	-	-	0.002	< 0.001	8.05	441	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	5.90	< 0.05	-
	Dec-03	-	-	0.004	0.002	8.37	576	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	3.60	< 0.05	-
	Mar-04	-	-	0.002	< 0.001	7.91	531	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	2.60	< 0.05	-
	Jun-04	-	-	0.002	< 0.001	8.06	332	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.32	< 0.05	-
	Sep-04	-	-	< 0.001	0.002	7.14	811	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	-	-
	Dec-04	-	-	0.009	< 0.001	7.36	996	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.98	< 0.05	-
	Mar-05	-	-	< 0.001	< 0.001	7.76	1158	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	1.20	< 0.05	-
	Jun-05	-	-	0.002	0.001	8.00	402	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	3.30	< 0.05	-
	Dec-05	-	-	0.001	0.001	7.67	893	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.63	< 0.05	-
	Jun-06	-	-	0.004	< 0.003	8.39	239	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.92	< 0.05	-
	Dec-06	-	-	0.210	< 0.003	7.46	549	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	9.30	< 0.05	-
	Jun-07	-	-	0.006	< 0.003	8.48	449	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	3.90	< 0.05	-
	Dec-07	-	-	< 0.003	< 0.003	8.47	1113	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	0.70	< 1.00	-
	Jun-08	-	-	0.210	< 0.003	7.81	1459	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	6.40	< 0.05	-
	Dec-08	-	-	< 0.003	< 0.003	7.68	2668	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-09	-	-	< 0.003	< 0.003	7.30	780	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	16.00	< 1.00	< 1.00
	Dec-09	-	-	< 0.003	< 0.003	7.10	1010	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	6.90	< 1.10	< 1.10
	Jun-10	-	-	< 0.003	< 0.003	7.40	22	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	9.20	< 2.00	-
	Dec-10	-	-	< 0.003	< 0.003	7.40	11200	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.70 J	< 1.00	-
	Jun-11	0.013	0.013	< 0.003	< 0.003	7.10	10400	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	23.00	< 10.00	< 10.00
	Jun-12	0.016	0.012	< 0.050	< 0.050	6.90	15300	-	-	-	< 0.47	< 0.47	15.00	< 0.47	-
	Aug-12	0.016	< 0.010	< 0.050	< 0.050	6.90	12500	< 0.05	< 0.05	< 0.05	< 0.47	0.80	1.30	0.18 P	-
	Jun-13	< 0.010	0.016	< 0.050	< 0.050	6.46	> 20000	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	4.30	< 0.24	-
	Jun-14	0.018	0.030	< 0.050	< 0.050	6.60	720000	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	4.30	< 0.24	-

Appendix A

**FIELD SAMPLING DATA SHEET**

Engineers • Environmental Scientists • Planners • Landscape Architects

SITE: Metalico - Thompson Road
CLIENT: Metalico Aluminum Recovery, Inc.
Weather Conditions: Cloudy, Light Rain

SAMPLE LOCATION: B-281 (MS/MSD)
JOB #: 1206.002.007
Temperature: 72 F

SAMPLE TYPE: Groundwater ☒ Surface Water ☐ Other (specify): _____
Sediment ☐ Leachate ☐

WATER LEVEL DATA

Static Water Level (feet)*:	6
Measured Well Depth (feet)*:	13.03
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1.12

*depth from measuring point

Measuring Point: Top of Riser
Measured by: MJK/MPS
Date: 06/10/14
Time: 12:27

PURGING METHOD

Equipment: Bailer ☒ Submersible Pump ☐ Air Lift System ☐
Non-dedicated ☒ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☐ Bladder Pump ☐

Calculated Volume Of Water To Be Purged (gallons): 3.36Actual Volume of Water Purged (gallons): 3.50Did well purge dry? No ☐ Yes ☒Did well recover? No ☐ Yes ☒Recovery Time: Overnight**SAMPLING METHOD**

Equipment: Bailer ☐ Submersible Pump ☐ Air Lift System ☐
Non-dedicated ☒ Foot Valve ☐ Peristaltic Pump ☒
Dedicated ☐ Bladder Pump ☐

Sampled by: MJK/MPS Time: 9:02 Date: 06/11/14**SAMPLING DATA***Sample Appearance*

Color: Clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	7.3	Sp. Conductivity (umhos/cm)	2400
Temperature (F)	63.6	Eh-Redox Potential (mV)	219
Turbidity (NTUs)	0.99	Dissolved Oxygen (mg/L)	-

*Samples Collected (Number/Type):*Six bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: ALS Courier Time: 14:00 Date: 06/11/14

COMMENTS:MS/MSDOrange purge water

**FIELD SAMPLING DATA SHEET**

Engineers • Environmental Scientists • Planners • Landscape Architects

SITE: Metalico - Thompson Road
CLIENT: Metalico Aluminum Recovery, Inc.
Weather Conditions: Cloudy, Light Rain

SAMPLE LOCATION: B-290
JOB #: 1206.002.007
Temperature: 72 F

SAMPLE TYPE: Groundwater ☒ Surface Water ☐ Other (specify): _____
Sediment ☐ Leachate ☐

WATER LEVEL DATA

Static Water Level (feet)*:	5.09
Measured Well Depth (feet)*:	10.26
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	0.84

*depth from measuring point

Measuring Point: Top of Riser
Measured by: MPS
Date: 06/10/14
Time: 12:35

PURGING METHOD

Equipment: Bailer ☒ Submersible Pump ☐ Air Lift System ☐
Non-dedicated ☒ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☐ Bladder Pump ☐

Calculated Volume Of Water To Be Purged (gallons): 2.52Actual Volume of Water Purged (gallons): 1.50Did well purge dry? No ☐ Yes ☒Did well recover? No ☐ Yes ☒Recovery Time: Overnight**SAMPLING METHOD**

Equipment: Bailer ☐ Submersible Pump ☐ Air Lift System ☐
Non-dedicated ☒ Foot Valve ☐ Peristaltic Pump ☒
Dedicated ☐ Bladder Pump ☐

Sampled by: MJK/MPS Time: 9:29 Date: 06/11/14

SAMPLING DATA**Sample Appearance**

Color: Clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	7.4	Sp. Conductivity (umhos/cm)	3500
Temperature (F)	62.0	Eh-Redox Potential (mV)	42
Turbidity (NTUs)	7.29	Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: ALS Courier Time: 14:00 Date: 06/11/14

COMMENTS:Orange purge water

**FIELD SAMPLING DATA SHEET**

Engineers • Environmental Scientists • Planners • Landscape Architects

SITE: Metalico - Thompson Road
CLIENT: Metalico Aluminum Recovery, Inc.
Weather Conditions: Cloudy, Light Rain

SAMPLE LOCATION: B-291
JOB #: 1206.002.007
Temperature: 72 F

SAMPLE TYPE: Groundwater ☒ Surface Water ☐ Other (specify): _____
Sediment ☐ Leachate ☐

WATER LEVEL DATA

Static Water Level (feet)*:	8.13
Measured Well Depth (feet)*:	12.54
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	0.71

*depth from measuring point

Measuring Point: Top of Riser
Measured by: MJK/MPS
Date: 06/10/14
Time: 14:15

PURGING METHOD

Equipment: Bailer ☒ Submersible Pump ☐ Air Lift System ☐
Non-dedicated ☒ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☐ Bladder Pump ☐

Calculated Volume Of Water To Be Purged (gallons): 2.13Actual Volume of Water Purged (gallons): 1.25Did well purge dry? No ☐ Yes ☒Did well recover? No ☐ Yes ☒Recovery Time: Overnight**SAMPLING METHOD**

Equipment: Bailer ☐ Submersible Pump ☐ Air Lift System ☐
Non-dedicated ☒ Foot Valve ☐ Peristaltic Pump ☒
Dedicated ☐ Bladder Pump ☐

Sampled by: MJK/MPS Time: 10:36 Date: 06/11/14

SAMPLING DATA**Sample Appearance**

Color: Clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	6.7	Sp. Conductivity (umhos/cm)	1030
Temperature (F)	56.7	Eh-Redox Potential (mV)	171
Turbidity (NTUs)	8.35	Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: ALS Courier Time: 14:00 Date: 06/11/14

COMMENTS:Lock is sticking

**FIELD SAMPLING DATA SHEET**

Engineers • Environmental Scientists • Planners • Landscape Architects

SITE: Metalico - Thompson Road
CLIENT: Metalico Aluminum Recovery, Inc.
Weather Conditions: Cloudy, Light Rain

SAMPLE LOCATION: B-401
JOB #: 1206.002.007
Temperature: 72 F

SAMPLE TYPE: Groundwater ☒ Surface Water ☐ Other (specify): _____
Sediment ☐ Leachate ☐

WATER LEVEL DATA

Static Water Level (feet)*:	7.4
Measured Well Depth (feet)*:	13.03
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	0.56

*depth from measuring point

Measuring Point: Top of Riser
Measured by: MJK
Date: 06/10/14
Time: 14:00

PURGING METHOD

Equipment: Bailer ☒ Submersible Pump ☐ Air Lift System ☐
Non-dedicated ☒ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☐ Bladder Pump ☐

Calculated Volume Of Water To Be Purged (gallons): 1.69Actual Volume of Water Purged (gallons): 1.25Did well purge dry? No ☐ Yes ☒Did well recover? No ☐ Yes ☒Recovery Time: Overnight**SAMPLING METHOD**

Equipment: Bailer ☐ Submersible Pump ☐ Air Lift System ☐
Non-dedicated ☒ Foot Valve ☐ Peristaltic Pump ☒
Dedicated ☐ Bladder Pump ☐

Sampled by: MJK/MPS Time: 10:13 Date: 06/11/14**SAMPLING DATA***Sample Appearance*

Color: Clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	8.5	Sp. Conductivity (umhos/cm)	1180
Temperature (F)	58.5	Eh-Redox Potential (mV)	219
Turbidity (NTUs)	0.61	Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):

Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: ALS Courier Time: 14:00 Date: 06/11/14**COMMENTS:**Lock is sticking



Engineers • Environmental Scientists • Planners • Landscape Architects

FIELD SAMPLING DATA SHEET

SITE: Metalico - Thompson Road
CLIENT: Metalico Aluminum Recovery, Inc.
Weather Conditions: Cloudy

SAMPLE LOCATION: B-402R
JOB #: 1206.002.007
Temperature: 72 F

SAMPLE TYPE: Groundwater ☒
Sediment ☐

Surface Water ☐ Other (specify): _____
Leachate ☐

WATER LEVEL DATA

Static Water Level (feet)*:	3.46
Measured Well Depth (feet)*:	12.24
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1.4

*depth from measuring point

Measuring Point: Top of Riser
Measured by: MJK
Date: 06/10/14
Time: 14:34

PURGING METHOD

Equipment: Bailer ☒ Submersible Pump ☐ Air Lift System ☐
Non-dedicated ☒ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☐ Bladder Pump ☐

Calculated Volume Of Water To Be Purged (gallons): 4.21

Actual Volume of Water Purged (gallons): 2.50

Did well purge dry? No ☐ Yes ☒

Did well recover? No ☐ Yes ☒

Recovery Time: Overnight

SAMPLING METHOD

Equipment: Bailer ☐ Submersible Pump ☐ Air Lift System ☐
Non-dedicated ☒ Foot Valve ☐ Peristaltic Pump ☒
Dedicated ☐ Bladder Pump ☐

Sampled by: MJK/MPS Time: 12:30 Date: 06/11/14

SAMPLING DATA

Sample Appearance

Color: Clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	7.9	Sp. Conductivity (umhos/cm)	2700
Temperature (F)	61.8	Eh-Redox Potential (mV)	150
Turbidity (NTUs)	17.4	Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):

Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: ALS Courier Time: 14:00 Date: 06/11/14

COMMENTS:

Lock is Sticking

**FIELD SAMPLING DATA SHEET**

Engineers • Environmental Scientists • Planners • Landscape Architects

SITE: Metalico - Thompson Road
CLIENT: Metalico Aluminum Recovery, Inc.
Weather Conditions: Cloudy, Light Rain

SAMPLE LOCATION: B-403
JOB #: 1206.002.007
Temperature: 72 F

SAMPLE TYPE: Groundwater ☒ Surface Water ☐ Other (specify): _____
Sediment ☐ Leachate ☐

WATER LEVEL DATA

Static Water Level (feet)*:	3.68
Measured Well Depth (feet)*:	11.26
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1.21

*depth from measuring point

Measuring Point: Top of Riser
Measured by: MJK
Date: 06/10/14
Time: 12:50

PURGING METHOD

Equipment: Bailer ☒ Submersible Pump ☐ Air Lift System ☐
Non-dedicated ☒ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☐ Bladder Pump ☐

Calculated Volume Of Water To Be Purged (gallons): 3.63Actual Volume of Water Purged (gallons): 2.00Did well purge dry? No ☐ Yes ☒Did well recover? No ☐ Yes ☒Recovery Time: Overnight**SAMPLING METHOD**

Equipment: Bailer ☐ Submersible Pump ☐ Air Lift System ☐
Non-dedicated ☒ Foot Valve ☐ Peristaltic Pump ☒
Dedicated ☐ Bladder Pump ☐

Sampled by: MJK/MPS Time: 9:49 Date: 06/11/14**SAMPLING DATA***Sample Appearance*

Color: Clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	8.0	Sp. Conductivity (umhos/cm)	960
Temperature (F)	62.5	Eh-Redox Potential (mV)	55
Turbidity (NTUs)	11.8	Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):

Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: ALS Courier Time: 14:00 Date: 06/11/14**COMMENTS:**

**FIELD SAMPLING DATA SHEET**

Engineers • Environmental Scientists • Planners • Landscape Architects

SITE: Metalico - Thompson Road
CLIENT: Metalico Aluminum Recovery, Inc.
Weather Conditions: Cloudy

SAMPLE LOCATION: B-404
JOB #: 1206.002.007
Temperature: 72 F

SAMPLE TYPE: Groundwater ☒ Surface Water ☐ Other (specify): _____
Sediment ☐ Leachate ☐

WATER LEVEL DATA

Static Water Level (feet)*:	5.63
Measured Well Depth (feet)*:	16.14
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1.68

*depth from measuring point

Measuring Point: Top of Riser
Measured by: MPS
Date: 06/10/14
Time: 14:25

PURGING METHOD

Equipment: Bailer ☒ Submersible Pump ☐ Air Lift System ☐
Non-dedicated ☒ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☐ Bladder Pump ☐

Calculated Volume Of Water To Be Purged (gallons): 5.04

Actual Volume of Water Purged (gallons): 6.50

Did well purge dry? No ☒ Yes ☐Did well recover? No ☐ Yes ☒

Recovery Time: Overnight

SAMPLING METHOD

Equipment: Bailer ☐ Submersible Pump ☐ Air Lift System ☐
Non-dedicated ☒ Foot Valve ☐ Peristaltic Pump ☒
Dedicated ☐ Bladder Pump ☐

Sampled by: MJK/MPS Time: 10:50 Date: 06/11/14

SAMPLING DATA**Sample Appearance**

Color: Clear Sediment: None

Odor: None

Field Measured Parameters

pH (Standard Units)	8.1	Sp. Conductivity (umhos/cm)	910
Temperature (F)	57.6	Eh-Redox Potential (mV)	6
Turbidity (NTUs)	1.55	Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):

Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: _____ **Time:** 14:00 **Date:** 06/11/14

COMMENTS:

Lock Sticking



Engineers • Environmental Scientists • Planners • Landscape Architects

FIELD SAMPLING DATA SHEET

SITE: Metalico - Thompson Road
CLIENT: Metalico Aluminum Recovery, Inc.
Weather Conditions: Cloudy, Light Rain

SAMPLE LOCATION: MW-8R / Dupe-X
JOB #: 1206.002.007
Temperature: 72 F

SAMPLE TYPE: Groundwater ☒
Sediment ☐

Surface Water ☐ Other (specify): _____
Leachate ☐

WATER LEVEL DATA

Static Water Level (feet)*:	3.09
Measured Well Depth (feet)*:	10.00
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1.11

*depth from measuring point

Measuring Point: Top of Riser
Measured by: MJK/MPS
Date: 06/10/14
Time: 14:50

PURGING METHOD

Equipment: Bailer ☒ Submersible Pump ☐ Air Lift System ☐
Non-dedicated ☒ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☐ Bladder Pump ☐

Calculated Volume Of Water To Be Purged (gallons): 3.33

Actual Volume of Water Purged (gallons): 3.50

Did well purge dry? No ☒ Yes ☐

Did well recover? No ☐ Yes ☐

Recovery Time: Overnight

SAMPLING METHOD

Equipment: Bailer ☐ Submersible Pump ☐ Air Lift System ☐
Non-dedicated ☒ Foot Valve ☐ Peristaltic Pump ☒
Dedicated ☐ Bladder Pump ☐

Sampled by: MJK/MPS Time: 13:02 Date: 06/11/14

SAMPLING DATA

Sample Appearance

Color: Hazy Sediment: None
Odor: Strong Chemical

Field Measured Parameters

pH (Standard Units)	6.6	Sp. Conductivity (umhos/cm)	720,000
Temperature (F)	65.5	Eh-Redox Potential (mV)	-56
Turbidity (NTUs)	225	Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):

Eight bottles - T-Pb,As; D-Pb,As; PCBs (2) + Dupe-X

Samples Delivered to: _____ Time: 14:00 Date: 06/11/14

COMMENTS:

Light sheen on purge water



Engineers • Environmental Scientists • Planners • Landscape Architects

FIELD SAMPLING DATA SHEET

SITE: Metalico - Thompson Road
CLIENT: Metalico Aluminum Recovery, Inc.
Weather Conditions: Cloudy, Rain

SAMPLE LOCATION: Equipment Blank
JOB #: 1206.002.007
Temperature: 72 F

SAMPLE TYPE: Groundwater ☒
Sediment ☐

Surface Water ☐ Other (specify): _____
Leachate ☐

WATER LEVEL DATA

Static Water Level (feet)*: _____
Measured Well Depth (feet)*: _____
Well Casing Diameter (inches): _____
Calculated Volume in Well Casing (gallons): _____

*depth from measuring point

Measuring Point: _____
Measured by: _____
Date: _____
Time: _____

PURGING METHOD

Equipment: Bailer ☐ Submersible Pump ☐ Air Lift System ☐
Non-dedicated ☐ Foot Valve ☐ Peristaltic Pump ☐
Dedicated ☐ Bladder Pump ☐

Calculated Volume Of Water To Be Purged (gallons): _____

Actual Volume of Water Purged (gallons): _____

Did well purge dry? No ☐ Yes ☐

Did well recover? No ☐ Yes ☐

Recovery Time: _____

SAMPLING METHOD

Equipment: Bailer ☐ Submersible Pump ☐ Air Lift System ☐
Non-dedicated ☒ Foot Valve ☐ Peristaltic Pump ☒
Dedicated ☐ Bladder Pump ☐

Sampled by: MPS Time: 8:45 Date: 06/11/12

SAMPLING DATA

Sample Appearance

Color: - Sediment: -
Odor: -

Field Measured Parameters

pH (Standard Units)	-	Sp. Conductivity (umhos/cm)	-
Temperature (F)	-	Eh-Redox Potential (mV)	-
Turbidity (NTUs)	-	Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):

Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: ALS Courier Time: 14:00 Date: 06/11/14

COMMENTS:

Record of Calibration

Project No: 1206.002.007 Date: 06/11/14Calibrated By: MJK Time: 8:30pH Instrument Model: pH Testr 10

<u>Standard Solution</u>	<u>Calibration Reading</u>	<u>Acceptable Range</u>	
pH 4:	4.00	(+/- 1.0 pH, pH 3.0 - 5.0)	Pass / Fail
pH 7:	7.00	(+/- 1.5 pH, pH 5.5 - 8.5)	
pH 10:	10.00	(+/- 1.0 pH, pH 9.0 - 11.0)	

Sp. Conductivity

Instrument Model: EC Testr 11

<u>Standard Solution</u>	<u>Calibration Reading</u>	<u>Acceptable Range</u>	
1413 uS	1410	(+/- 1.0 % Error = 1399-1427)	Pass / Fail

ORP Instrument Model: ORP Testr 10

<u>Standard Solution</u>	<u>Calibration Reading</u>	<u>Acceptable Range</u>	
220 mV	222 @ 75F	(+/- 5% at 25°C, 209 - 231 mV)	Pass / Fail
or YSI Zobell Soln	-	(Refer to YSI calibration table)	

Turbidimeter Model: Micro TPI

<u>Standard Solution</u>	<u>Calibration Reading</u>	<u>Acceptable Range</u>	
0 NTU	0.0	Blank with 0.0 NTU	Pass / Fail
1.0 NTU	0.96	(0.5-1.5 NTU)	
10 NTU	10	(8-12 NTU)	

Methane Meter Model: NA

<u>Standard Gas</u>	<u>Calibration Reading</u>	<u>Acceptable Range</u>	
2.50% Methane	-	(+/- 5.0% Error, 2.63-2.38% methane)	Pass / Fail

Comments: _____


ALS Environmental

1565 Jefferson Rd Bldg 300, Suite 360 Rochester, NY 14623

585-288-5380 FAX 585-288-8475

SR#

PAGE 1 OF 1

Project Name: <u>Metalico CAMU</u> Project Number: <u>1206.002.007</u> Project Manager: <u>Matt Strodel</u> Company: <u>Barton & Loguidice</u> Company/Address: <u>290 E Wood Denis Rd</u> Phone: _____ City, State, Zip: <u>Lewiston NY 13088</u> FAX: _____ Sampler's Signature: <u>[Signature]</u>					Analysis Requested Number of Containers 8082 Total As, Pb Dissolved As, Pb		
Sample I.D.	Date	Time	LAB ID	Matrix	8082	Total As, Pb	Dissolved As, Pb
B-281 (MS/MSD)	06/11/14	09:02		Water	6	X	X
B-290		09:29			4	X	X
B-291		10:36			4	X	X
B-401		10:13			4	X	X
B-402R		12:30			4	X	X
B-403		09:49			4	X	X
B-404		10:50			4	X	X
MW-8R		13:02			4	X	X
Equipment Blank		08:45			4	X	X
Dupe X					4	X	X
TURNAROUND REQUIREMENTS ___ 24 hr ___ 48 hr ___ 5 BD X ___ Standard (15 BD) ___ Provide FAX Preliminary Results Requested Report Date: _____					REPORT REQUIREMENTS I. Routine Report: Results and Method Blank (Surrogate, as required) X II. Results w/ QC (Dup., MS, MSD as req) III. Results (with QC and Calibration Summaries) IV. ASP-B V. CLP EDD?: _____		
INVOICE INFORMATION P.O. # <u>1206.002.007</u> Bill to: _____					Comments/Special Instructions: <div style="border: 1px solid black; padding: 5px; text-align: center;"> R1404445 <small>Barton & Loguidice, PC Metalico CAMU</small>  5 </div>		
RELINQUISHED BY: Signature: <u>[Signature]</u> Printed Name: <u>Matthew Strodel</u> Firm: <u>B+L</u> Date/Time: <u>14:00</u>		RECEIVED BY: Signature: <u>[Signature]</u> Printed Name: <u>Chris Wright</u> Firm: <u>ALS</u> Date/Time: <u>6/11/14 1541</u>		RELINQUISHED BY: Signature: <u>[Signature]</u> Printed Name: <u>Chris Wright</u> Firm: <u>ALS</u> Date/Time: <u>6/11/14 1736</u>		RECEIVED BY: Signature: <u>[Signature]</u> Printed Name: <u>Amiel V. C.</u> Firm: <u>ALS</u> Date/Time: <u>6/11/14/1730</u>	



Cooler Receipt and Preservation Check Form

Project/Client B+L Folder Number R14-4445

Cooler received on 6/11/14 by: dlw COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <input checked="" type="radio"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="radio"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="radio"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="radio"/> N

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y N <u>NA</u>
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as:	Bulk Encore 5035set <u>NA</u>

8. Temperature Readings Date: _____ Time: 1800 ID: IR#3 IR#4 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>5.5</u>	<u>5.0</u>	<u>7.16</u>				
Correction Factor (°C)	<u>+0.2</u>	<u>+0.2</u>	<u>+0.2</u>				
Corrected Temp (°C)	<u>5.7</u>	<u>5.2</u>	<u>7.38</u>				
Within 0-6°C?	<input checked="" type="radio"/> N	<input checked="" type="radio"/> N	Y <input checked="" type="radio"/>	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted _____ Poorly Packed _____ Same Day-Rule

& Client Approval to Run Samples: _____ Standing Approval _____ Client aware at drop-off _____ Client notified by: _____

All samples held in storage location:	<u>R-002</u>	by <u>dlw</u>	on <u>6/11/14</u>	at <u>1800</u>
5035 samples placed in storage location:		by _____	on _____	at _____

PC Secondary Review: [Signature]

Cooler Breakdown: Date: 6/12/14 Time: 1145 by: [Signature]

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO data/tenis
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Air Samples: Cassettes / Tubes Intact _____ Canisters Pressurized _____ Tedlar® Bags Inflated N/A

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO ₃	<input checked="" type="checkbox"/>		<u>RDB26136B</u>	<u>5/15</u>				
≤2	H ₂ SO ₄								
<4	NaHSO ₄								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
	Na ₂ S ₂ O ₃	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 070714-184T
Other Comments: _____

PC Secondary Review: [Signature]

*significant air bubbles: VOA > 5-6 mm ; WC > 1 in. diameter

Appendix B



June 23, 2014

Service Request No: R1404445

Mr. Matthew Strodel
Barton & Loguidice, PC
290 Elwood Davis Road, Box 3107
Syracuse, NY 13220

Laboratory Results for: Metalico CAMU/1206.002.007

Dear Mr. Strodel:

Enclosed are the results of the sample(s) submitted to our laboratory on June 11, 2014. For your reference, these analyses have been assigned our service request number **R1404445**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7473. You may also contact me via email at Deb.Patton@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Deb Patton
Project Manager

Page 1 of 48

CASE NARRATIVE

This report contains analytical results for the following samples:
Service Request Number: R1404445

<u>Lab ID</u>	<u>Client ID</u>
R1404445-001	B-281
R1404445-002	B-281 Dissolved
R1404445-003	B-290
R1404445-004	B-290 Dissolved
R1404445-005	B-291
R1404445-006	B-291 Dissolved
R1404445-007	B-401
R1404445-008	B-401 Dissolved
R1404445-009	B-402R
R1404445-010	B-402R Dissolved
R1404445-011	B-403
R1404445-012	B-403 Dissolved
R1404445-013	B-404
R1404445-014	B-404 Dissolved
R1404445-015	MW-8R
R1404445-016	MW-8R Dissolved
R1404445-017	EQUIPMENT BLANK
R1404445-018	EQUIPMENT BLANK Dissolved
R1404445-019	DUPE X
R1404445-020	DUPE X Dissolved

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.

00002



ALS Environmental

REPORT QUALIFIERS AND DEFINITIONS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- * Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.
- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

NELAP Accredited	Maine ID #NY0032	New Hampshire ID #
Connecticut ID # PH0556	Nebraska Accredited	294100 A/B
Delaware Accredited	Nevada ID # NY-00032	North Carolina #676
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047		Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>

RIGHT SOLUTIONS | RIGHT PARTNER



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	3010A
200.8	ILM05.3
6010C	3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3010A
6010 SPLP (1312) extract	3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

RIGHT SOLUTIONS | RIGHT PARTNER

P:\INTRANET\QAQC\Forms Controlled\Prep Methods Inorganic rev 0.doc 5/16/13

00004

FOIL209578

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
 Project: Metalico CAMU/1206.002.007
 Sample Matrix: Water
 Sample Name: B-281
 Lab Code: R1404445-001

Service Request: R1404445
 Date Collected: 6/11/14 0902
 Date Received: 6/11/14

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10 U	µg/L	10	1	6/16/14	6/20/14 03:24	
Lead, Total	6010C	50 U	µg/L	50	1	6/16/14	6/20/14 03:24	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
 Project: Metalico CAMU/1206.002.007
 Sample Matrix: Water

Service Request: R1404445
 Date Collected: 6/11/14 0902
 Date Received: 6/11/14

Sample Name: B-281 Dissolved
 Lab Code: R1404445-002

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10 U	µg/L	10	1	6/16/14	6/20/14 03:55	
Lead, Dissolved	6010C	50 U	µg/L	50	1	6/16/14	6/20/14 03:55	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.007
Sample Matrix: Water

Service Request: R1404445
Date Collected: 6/11/14 0902
Date Received: 6/11/14
Date Extracted: 6/13/14
Date Analyzed: 6/17/14 21:38

Sample Name: B-281
Lab Code: R1404445-001

Units: µg/L
Basis: NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3510C
Data File Name: I:\ACQU\DATA\6890G\DATA\061714\AX566.D\

Analysis Lot: 397664
Extraction Lot: 210749
Instrument Name: R-GC-58
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
12674-11-2	Aroclor 1016	0.047	U	0.047	
11104-28-2	Aroclor 1221	0.047	U	0.047	
11141-16-5	Aroclor 1232	0.047	U	0.047	
53469-21-9	Aroclor 1242	0.047	U	0.047	
12672-29-6	Aroclor 1248	0.047	U	0.047	
11097-69-1	Aroclor 1254	0.047	U	0.047	
11096-82-5	Aroclor 1260	0.047	U	0.047	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	39	10-125	6/17/14 21:38	
Tetrachloro-m-xylene	80	18-126	6/17/14 21:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
 Project: Metalico CAMU/1206.002.007
 Sample Matrix: Water
 Sample Name: B-290
 Lab Code: R1404445-003

Service Request: R1404445
 Date Collected: 6/11/14 0929
 Date Received: 6/11/14

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	21		µg/L	10	1	6/16/14	6/20/14 04:01	
Lead, Total	6010C	50	U	µg/L	50	1	6/16/14	6/20/14 04:01	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
 Project: Metalico CAMU/1206.002.007
 Sample Matrix: Water
 Sample Name: B-290 Dissolved
 Lab Code: R1404445-004

Service Request: R1404445
 Date Collected: 6/11/14 0929
 Date Received: 6/11/14

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	6/16/14	6/20/14 04:07	
Lead, Dissolved	6010C	50	U	µg/L	50	1	6/16/14	6/20/14 04:07	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.007
Sample Matrix: Water

Service Request: R1404445
Date Collected: 6/11/14 0929
Date Received: 6/11/14
Date Extracted: 6/13/14
Date Analyzed: 6/17/14 22:53

Sample Name: B-290
Lab Code: R1404445-003

Units: µg/L
Basis: NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3510C
Data File Name: I:\ACQU\DATA\6890G\DATA\061714\AX569.D\

Analysis Lot: 397664
Extraction Lot: 210749
Instrument Name: R-GC-58
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
12674-11-2	Aroclor 1016	0.050	U	0.050	
11104-28-2	Aroclor 1221	0.050	U	0.050	
11141-16-5	Aroclor 1232	0.050	U	0.050	
53469-21-9	Aroclor 1242	0.050	U	0.050	
12672-29-6	Aroclor 1248	0.050	U	0.050	
11097-69-1	Aroclor 1254	0.050	U	0.050	
11096-82-5	Aroclor 1260	0.050	U	0.050	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	37	10-125	6/17/14 22:53	
Tetrachloro-m-xylene	71	18-126	6/17/14 22:53	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
 Project: Metalico CAMU/1206.002.007
 Sample Matrix: Water
 Sample Name: B-291
 Lab Code: R1404445-005

Service Request: R1404445
 Date Collected: 6/11/14 1036
 Date Received: 6/11/14

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	6/16/14	6/20/14 04:26	
Lead, Total	6010C	50	U	µg/L	50	1	6/16/14	6/20/14 04:26	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
 Project: Metalico CAMU/1206.002.007
 Sample Matrix: Water
 Sample Name: B-291 Dissolved
 Lab Code: R1404445-006

Service Request: R1404445
 Date Collected: 6/11/14 1036
 Date Received: 6/11/14

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10 U	µg/L	10	1	6/16/14	6/20/14 04:32	
Lead, Dissolved	6010C	50 U	µg/L	50	1	6/16/14	6/20/14 04:32	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.007
Sample Matrix: Water

Service Request: R1404445
Date Collected: 6/11/14 1036
Date Received: 6/11/14
Date Extracted: 6/16/14
Date Analyzed: 6/18/14 01:49

Sample Name: B-291
Lab Code: R1404445-005

Units: µg/L
Basis: NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3510C
Data File Name: I:\ACQUDATA\6890G\DATA\061714\AX576.D\

Analysis Lot: 397664
Extraction Lot: 210846
Instrument Name: R-GC-58
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
12674-11-2	Aroclor 1016	0.047	U	0.047	
11104-28-2	Aroclor 1221	0.047	U	0.047	
11141-16-5	Aroclor 1232	0.047	U	0.047	
53469-21-9	Aroclor 1242	0.047	U	0.047	
12672-29-6	Aroclor 1248	0.047	U	0.047	
11097-69-1	Aroclor 1254	0.047	U	0.047	
11096-82-5	Aroclor 1260	0.047	U	0.047	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	49	10-125	6/18/14 01:49	
Tetrachloro-m-xylene	76	18-126	6/18/14 01:49	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
 Project: Metalico CAMU/1206.002.007
 Sample Matrix: Water
 Sample Name: B-401
 Lab Code: R1404445-007

Service Request: R1404445
 Date Collected: 6/11/14 1013
 Date Received: 6/11/14

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10 U	µg/L	10	1	6/16/14	6/20/14 04:38	
Lead, Total	6010C	50 U	µg/L	50	1	6/16/14	6/20/14 04:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.007
Sample Matrix: Water
Sample Name: B-401 Dissolved
Lab Code: R1404445-008

Service Request: R1404445
Date Collected: 6/11/14 1013
Date Received: 6/11/14

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10 U	µg/L	10	1	6/16/14	6/20/14 04:44	
Lead, Dissolved	6010C	50 U	µg/L	50	1	6/16/14	6/20/14 04:44	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.007
Sample Matrix: Water

Service Request: R1404445
Date Collected: 6/11/14 1013
Date Received: 6/11/14
Date Extracted: 6/16/14
Date Analyzed: 6/18/14 02:15

Sample Name: B-401
Lab Code: R1404445-007

Units: µg/L
Basis: NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3510C
Data File Name: I:\ACQU\DATA\6890G\DATA\061714\AX577.D\

Analysis Lot: 397664
Extraction Lot: 210846
Instrument Name: R-GC-58
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
12674-11-2	Aroclor 1016	0.047 U	0.047	
11104-28-2	Aroclor 1221	0.047 U	0.047	
11141-16-5	Aroclor 1232	0.047 U	0.047	
53469-21-9	Aroclor 1242	0.047 U	0.047	
12672-29-6	Aroclor 1248	0.047 U	0.047	
11097-69-1	Aroclor 1254	0.047 U	0.047	
11096-82-5	Aroclor 1260	0.047 U	0.047	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	64	10-125	6/18/14 02:15	
Tetrachloro-m-xylene	89	18-126	6/18/14 02:15	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
 Project: Metalico CAMU/1206.002.007
 Sample Matrix: Water
 Sample Name: B-402R
 Lab Code: R1404445-009

Service Request: R1404445
 Date Collected: 6/11/14 1230
 Date Received: 6/11/14

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	6/16/14	6/20/14 04:51	
Lead, Total	6010C	50	U	µg/L	50	1	6/16/14	6/20/14 04:51	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
 Project: Metalico CAMU/1206.002.007
 Sample Matrix: Water
 Sample Name: B-402R Dissolved
 Lab Code: R1404445-010

Service Request: R1404445
 Date Collected: 6/11/14 1230
 Date Received: 6/11/14

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	6/16/14	6/20/14 04:57	
Lead, Dissolved	6010C	50	U	µg/L	50	1	6/16/14	6/20/14 04:57	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.007
Sample Matrix: Water

Service Request: R1404445
Date Collected: 6/11/14 1230
Date Received: 6/11/14
Date Extracted: 6/16/14
Date Analyzed: 6/18/14 02:40

Sample Name: B-402R
Lab Code: R1404445-009

Units: µg/L
Basis: NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3510C
Data File Name: I:\ACQU\DATA\6890G\DATA\061714\AX578.D\

Analysis Lot: 397664
Extraction Lot: 210846
Instrument Name: R-GC-58
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
12674-11-2	Aroclor 1016	0.047	U	0.047	
11104-28-2	Aroclor 1221	0.047	U	0.047	
11141-16-5	Aroclor 1232	0.047	U	0.047	
53469-21-9	Aroclor 1242	0.047	U	0.047	
12672-29-6	Aroclor 1248	0.047	U	0.047	
11097-69-1	Aroclor 1254	0.047	U	0.047	
11096-82-5	Aroclor 1260	0.047	U	0.047	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	42	10-125	6/18/14 02:40	
Tetrachloro-m-xylene	69	18-126	6/18/14 02:40	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
 Project: Metalico CAMU/1206.002.007
 Sample Matrix: Water
 Sample Name: B-403
 Lab Code: R1404445-011

Service Request: R1404445
 Date Collected: 6/11/14 0949
 Date Received: 6/11/14

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	6/16/14	6/20/14 05:03	
Lead, Total	6010C	50	U	µg/L	50	1	6/16/14	6/20/14 05:03	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
 Project: Metalico CAMU/1206.002.007
 Sample Matrix: Water
 Sample Name: B-403 Dissolved
 Lab Code: R1404445-012

Service Request: R1404445
 Date Collected: 6/11/14 0949
 Date Received: 6/11/14

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	6/16/14	6/20/14 05:09	
Lead, Dissolved	6010C	50	U	µg/L	50	1	6/16/14	6/20/14 05:09	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.007
Sample Matrix: Water

Service Request: R1404445
Date Collected: 6/11/14 0949
Date Received: 6/11/14
Date Extracted: 6/16/14
Date Analyzed: 6/18/14 03:05

Sample Name: B-403
Lab Code: R1404445-011

Units: µg/L
Basis: NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3510C
Data File Name: I:\ACQU\DATA\6890G\DATA\061714\AX579.D\

Analysis Lot: 397664
Extraction Lot: 210846
Instrument Name: R-GC-58
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
12674-11-2	Aroclor 1016	0.047	U	0.047	
11104-28-2	Aroclor 1221	0.047	U	0.047	
11141-16-5	Aroclor 1232	0.047	U	0.047	
53469-21-9	Aroclor 1242	0.047	U	0.047	
12672-29-6	Aroclor 1248	0.047	U	0.047	
11097-69-1	Aroclor 1254	0.047	U	0.047	
11096-82-5	Aroclor 1260	0.047	U	0.047	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	54	10-125	6/18/14 03:05	
Tetrachloro-m-xylene	71	18-126	6/18/14 03:05	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
 Project: Metalico CAMU/1206.002.007
 Sample Matrix: Water
 Sample Name: B-404
 Lab Code: R1404445-013

Service Request: R1404445
 Date Collected: 6/11/14 1050
 Date Received: 6/11/14

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10 U	µg/L	10	1	6/16/14	6/20/14 05:15	
Lead, Total	6010C	50 U	µg/L	50	1	6/16/14	6/20/14 05:15	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
 Project: Metalico CAMU/1206.002.007
 Sample Matrix: Water
 Sample Name: B-404 Dissolved
 Lab Code: R1404445-014

Service Request: R1404445
 Date Collected: 6/11/14 1050
 Date Received: 6/11/14

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10 U	µg/L	10	1	6/16/14	6/20/14 05:22	
Lead, Dissolved	6010C	50 U	µg/L	50	1	6/16/14	6/20/14 05:22	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.007
Sample Matrix: Water

Service Request: R1404445
Date Collected: 6/11/14 1050
Date Received: 6/11/14
Date Extracted: 6/16/14
Date Analyzed: 6/18/14 03:31

Sample Name: B-404
Lab Code: R1404445-013

Units: µg/L
Basis: NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3510C
Data File Name: I:\ACQU\DATA\6890G\DATA\061714\AX580.D\

Analysis Lot: 397664
Extraction Lot: 210846
Instrument Name: R-GC-58
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
12674-11-2	Aroclor 1016	0.047	U	0.047	
11104-28-2	Aroclor 1221	0.047	U	0.047	
11141-16-5	Aroclor 1232	0.047	U	0.047	
53469-21-9	Aroclor 1242	0.047	U	0.047	
12672-29-6	Aroclor 1248	0.047	U	0.047	
11097-69-1	Aroclor 1254	0.047	U	0.047	
11096-82-5	Aroclor 1260	0.047	U	0.047	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	39	10-125	6/18/14 03:31	
Tetrachloro-m-xylene	63	18-126	6/18/14 03:31	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
 Project: Metalico CAMU/1206.002.007
 Sample Matrix: Water
 Sample Name: MW-8R
 Lab Code: R1404445-015

Service Request: R1404445
 Date Collected: 6/11/14 1302
 Date Received: 6/11/14

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	18	µg/L	10	1	6/16/14	6/20/14 05:40	
Lead, Total	6010C	50 U	µg/L	50	1	6/16/14	6/20/14 05:40	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
 Project: Metalico CAMU/1206.002.007
 Sample Matrix: Water
 Sample Name: MW-8R Dissolved
 Lab Code: R1404445-016

Service Request: R1404445
 Date Collected: 6/11/14 1302
 Date Received: 6/11/14

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	30	µg/L	10	1	6/16/14	6/20/14 05:47	
Lead, Dissolved	6010C	50 U	µg/L	50	1	6/16/14	6/20/14 05:47	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.007
Sample Matrix: Water

Service Request: R1404445
Date Collected: 6/11/14 1302
Date Received: 6/11/14
Date Extracted: 6/16/14
Date Analyzed: 6/18/14 08:43

Sample Name: MW-8R
Lab Code: R1404445-015

Units: µg/L
Basis: NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3510C
Data File Name: I:\ACQU\DATA\6890G\DATA\061714\AX588.D\

Analysis Lot: 397664
Extraction Lot: 210846
Instrument Name: R-GC-58
Dilution Factor: 5

CAS No.	Analyte Name	Result	Q	MRL	Note
12674-11-2	Aroclor 1016	0.24	U	0.24	
11104-28-2	Aroclor 1221	0.24	U	0.24	
11141-16-5	Aroclor 1232	0.24	U	0.24	
53469-21-9	Aroclor 1242	0.24	U	0.24	
12672-29-6	Aroclor 1248	0.24	U	0.24	
11097-69-1	Aroclor 1254	4.3		0.24	
11096-82-5	Aroclor 1260	0.24	U	0.24	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	42	10-125	6/18/14 08:43	
Tetrachloro-m-xylene	69	18-126	6/18/14 08:43	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
 Project: Metalico CAMU/1206.002.007
 Sample Matrix: Water
 Sample Name: EQUIPMENT BLANK
 Lab Code: R1404445-017

Service Request: R1404445
 Date Collected: 6/11/14 0845
 Date Received: 6/11/14

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	6/16/14	6/20/14 05:53	
Lead, Total	6010C	50	U	µg/L	50	1	6/16/14	6/20/14 05:53	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
 Project: Metalico CAMU/1206.002.007
 Sample Matrix: Water
 Sample Name: EQUIPMENT BLANK Dissolved
 Lab Code: R1404445-018

Service Request: R1404445
 Date Collected: 6/11/14 0845
 Date Received: 6/11/14

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10 U	µg/L	10	1	6/16/14	6/20/14 05:59	
Lead, Dissolved	6010C	50 U	µg/L	50	1	6/16/14	6/20/14 05:59	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.007
Sample Matrix: Water

Service Request: R1404445
Date Collected: 6/11/14 0845
Date Received: 6/11/14
Date Extracted: 6/16/14
Date Analyzed: 6/18/14 05:11

Sample Name: EQUIPMENT BLANK
Lab Code: R1404445-017

Units: µg/L
Basis: NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3510C
Data File Name: I:\ACQUDATA\6890G\DATA\061714\AX584.D\

Analysis Lot: 397664
Extraction Lot: 210846
Instrument Name: R-GC-58
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
12674-11-2	Aroclor 1016	0.047	U	0.047	
11104-28-2	Aroclor 1221	0.047	U	0.047	
11141-16-5	Aroclor 1232	0.047	U	0.047	
53469-21-9	Aroclor 1242	0.047	U	0.047	
12672-29-6	Aroclor 1248	0.047	U	0.047	
11097-69-1	Aroclor 1254	0.047	U	0.047	
11096-82-5	Aroclor 1260	0.047	U	0.047	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	39	10-125	6/18/14 05:11	
Tetrachloro-m-xylene	70	18-126	6/18/14 05:11	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
 Project: Metalico CAMU/1206.002.007
 Sample Matrix: Water

Service Request: R1404445
 Date Collected: 6/11/14
 Date Received: 6/11/14

Sample Name: DUPE X
 Lab Code: R1404445-019

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	14		µg/L	10	1	6/16/14	6/20/14 06:05	
Lead, Total	6010C	50	U	µg/L	50	1	6/16/14	6/20/14 06:05	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
 Project: Metalico CAMU/1206.002.007
 Sample Matrix: Water
 Sample Name: DUPE X Dissolved
 Lab Code: R1404445-020

Service Request: R1404445
 Date Collected: 6/11/14
 Date Received: 6/11/14

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	29		µg/L	10	1	6/16/14	6/20/14 06:12	
Lead, Dissolved	6010C	50	U	µg/L	50	1	6/16/14	6/20/14 06:12	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.007
Sample Matrix: Water

Service Request: R1404445
Date Collected: 6/11/14
Date Received: 6/11/14
Date Extracted: 6/16/14
Date Analyzed: 6/18/14 09:08

Sample Name: DUPE X
Lab Code: R1404445-019

Units: µg/L
Basis: NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3510C
Data File Name: I:\ACQUDATA\6890G\DATA\061714\AX589.D\

Analysis Lot: 397664
Extraction Lot: 210846
Instrument Name: R-GC-58
Dilution Factor: 5

CAS No.	Analyte Name	Result	Q	MRL	Note
12674-11-2	Aroclor 1016	0.24	U	0.24	
11104-28-2	Aroclor 1221	0.24	U	0.24	
11141-16-5	Aroclor 1232	0.24	U	0.24	
53469-21-9	Aroclor 1242	0.24	U	0.24	
12672-29-6	Aroclor 1248	0.24	U	0.24	
11097-69-1	Aroclor 1254	3.6		0.24	
11096-82-5	Aroclor 1260	0.24	U	0.24	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	38	10-125	6/18/14 09:08	
Tetrachloro-m-xylene	65	18-126	6/18/14 09:08	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.007
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1404445-MB

Service Request: R1404445
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10 U	µg/L	10	1	6/16/14	6/20/14 03:12	
Arsenic, Total	6010C	10 U	µg/L	10	1	6/16/14	6/20/14 03:12	
Lead, Dissolved	6010C	50 U	µg/L	50	1	6/16/14	6/20/14 03:12	
Lead, Total	6010C	50 U	µg/L	50	1	6/16/14	6/20/14 03:12	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.007
Sample Matrix: Water

Service Request: R1404445
Date Collected: NA
Date Received: NA
Date Extracted: 6/13/14
Date Analyzed: 6/17/14 10:55

Sample Name: Method Blank
Lab Code: RQ1406527-01

Units: µg/L
Basis: NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3510C
Data File Name: I:\ACQUDATA\6890G\DATA\061714\AX541.D\

Analysis Lot: 397664
Extraction Lot: 210749
Instrument Name: R-GC-58
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
12674-11-2	Aroclor 1016	0.050	U	0.050	
11104-28-2	Aroclor 1221	0.050	U	0.050	
11141-16-5	Aroclor 1232	0.050	U	0.050	
53469-21-9	Aroclor 1242	0.050	U	0.050	
12672-29-6	Aroclor 1248	0.050	U	0.050	
11097-69-1	Aroclor 1254	0.050	U	0.050	
11096-82-5	Aroclor 1260	0.050	U	0.050	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	48	10-125	6/17/14 10:55	
Tetrachloro-m-xylene	61	18-126	6/17/14 10:55	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.007
Sample Matrix: Water

Service Request: R1404445
Date Collected: NA
Date Received: NA
Date Extracted: 6/16/14
Date Analyzed: 6/18/14 00:33

Sample Name: Method Blank
Lab Code: RQ1406589-01

Units: µg/L
Basis: NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3510C
Data File Name: I:\ACQU\DATA\6890G\DATA\061714\AX573.D\

Analysis Lot: 397664
Extraction Lot: 210846
Instrument Name: R-GC-58
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
12674-11-2	Aroclor 1016	0.050	U	0.050	
11104-28-2	Aroclor 1221	0.050	U	0.050	
11141-16-5	Aroclor 1232	0.050	U	0.050	
53469-21-9	Aroclor 1242	0.050	U	0.050	
12672-29-6	Aroclor 1248	0.050	U	0.050	
11097-69-1	Aroclor 1254	0.050	U	0.050	
11096-82-5	Aroclor 1260	0.050	U	0.050	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	53	10-125	6/18/14 00:33	
Tetrachloro-m-xylene	69	18-126	6/18/14 00:33	

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.007
Sample Matrix: Water

Service Request: R1404445
Date Collected: 6/11/14
Date Received: 6/11/14
Date Analyzed: 6/20/14

Replicate Sample Summary
Inorganic Parameters

Sample Name: B-281
Lab Code: R1404445-001

Units: µg/L
Basis: NA

Analyte Name	Method	MRL	Sample Result	B-281DUP Duplicate Sample R1404445-001DUP		RPD	RPD Limit
				Result	Average		
Arsenic, Total	6010C	10	10 U	10 U	NC	NC	20
Lead, Total	6010C	50	50 U	50 U	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 6/23/14 10:06

Form 3B

\\pwwa001\startims\ALIMSReps\DuplicateSummary.rpt

SuperSet Reference: 14-0000792882 rev 00

00038

FOIL209612

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.007
Sample Matrix: Water

Service Request: R1404445
Date Collected: 6/11/14
Date Received: 6/11/14
Date Analyzed: 6/20/14

Matrix Spike Summary
Inorganic Parameters

Sample Name: B-281
Lab Code: R1404445-001
Analytical Method: 6010C
Prep Method: EPA 3010A

Units: µg/L
Basis: NA

B-281MS
Matrix Spike
R1404445-001MS

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Total	ND	39	40	98	75 - 125
Lead, Total	ND	489	500	98	75 - 125

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 6/23/14 10:05

Form 3A

Valprews001\stadium50\JMSReps\MatrixSpike.rpt

SuperSet Reference: 14-0000292882rev00

FOIL209613

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.007
Sample Matrix: Water

Service Request: R1404445
Date Collected: 6/11/14
Date Received: 6/11/14
Date Analyzed: 6/17/14

Matrix Spike Summary
Low Level Polychlorinated Biphenyls (PCBs) by GC

Sample Name: B-281
Lab Code: R1404445-001
Analytical Method: 8082A
Prep Method: EPA 3510C

Units: µg/L
Basis: NA

Analyte Name	Sample Result	B-281MS Matrix Spike RQ1406527-04			B-281DMS Duplicate Matrix Spike RQ1406527-05			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Aroclor 1016	ND	0.383	0.500	77	0.300	0.500	60	40 - 140	24	30
Aroclor 1260	ND	0.364	0.500	73	0.324	0.500	65	19 - 162	12	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 6/23/14 10:05

Form 3A

\\alprews001\starline\SLIMSReps\MatrixSpike.rpt

SuperSei Reference:

14-0000292882 rev 00

FOIL209614

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.007
Sample Matrix: Water

Service Request: R1404445
Date Analyzed: 6/20/14

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Lab Control Sample
R1404445-LCS

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Dissolved	6010C	33.6	40	84	80 - 120
Arsenic, Total	6010C	33.6	40	84	80 - 120
Lead, Dissolved	6010C	484	500	97	80 - 120
Lead, Total	6010C	484	500	97	80 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 6/23/14 10:06

Form 3C

Valprews001\starlms\ALIMSReps\LabControlSample.rpt

SuperSet Reference: 14-0000292882 rev 00

000041

FOIL209615

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.007
Sample Matrix: Water

Service Request: R1404445
Date Analyzed: 6/17/14

Lab Control Sample Summary
Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3510C

Units: µg/L
Basis: NA

Extraction Lot: 210749

Analyte Name	Lab Control Sample RQ1406527-02			Duplicate Lab Control Sample RQ1406527-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Aroclor 1016	0.280	0.500	56	0.344	0.500	69	40 - 140	20	30
Aroclor 1260	0.303	0.500	61	0.356	0.500	71	24 - 157	16	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 6/23/14 10:06

Form 3C

\\alprews001\slr\lms\SLIMSReps\LabControlSample.rpt

SuperSet Reference:

00042
14-0000292882 rev 00

FOIL209616

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.007
Sample Matrix: Water

Service Request: R1404445
Date Analyzed: 6/18/14

Lab Control Sample Summary
Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3510C

Units: µg/L
Basis: NA

Extraction Lot: 210846

Analyte Name	Lab Control Sample RQ1406589-02			Duplicate Lab Control Sample RQ1406589-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Aroclor 1016	0.353	0.500	71	0.356	0.500	71	40 - 140	<1	30
Aroclor 1260	0.374	0.500	75	0.375	0.500	75	24 - 157	<1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 6/23/14 10:06

Form 3C

\\alprews001\starline\SL\MSR\Reps\LabControlSample.rpt

SuperSet Reference: 14-0000292882 rev 00

00043

FOIL209617

Preparation Information Benchsheet

Prep Run#: 210846
Team: Semiova GC/DMURPHY

Prep Workflow: OrgExtLLAq(7)
Prep Method: EPA 3510C

Status: Prepped
Prep Date/Time: 6/16/14 07:02 AM

#	Lab Code	Client ID	B#	Amt. Ext	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1406589-01	MB		1000mL	8082A/PCB LL	6			2.00mL	clear-colorless	1.0000 mL/71399	
2	RQ1406589-02	LCS		1000mL	8082A/PCB LL	6			2.00mL	clear-colorless	1.0000 mL/71399; 0.1000 mL/70612	
3	RQ1406589-03	DLCS		1000mL	8082A/PCB LL	6			2.00mL	clear-colorless	0.1000 mL/70612; 1.0000 mL/71399	
4	R1404445-005	B-291	.02	1060mL	8082A/PCB LL	7			2.00mL	clear-colorless	1.0000 mL/71399	
5	R1404445-007	B-401	.01	1060mL	8082A/PCB LL	7			2.00mL	clear-colorless	1.0000 mL/71399	
6	R1404445-009	B-402R	.02	1060mL	8082A/PCB LL	7			2.00mL	yellowcloudy	1.0000 mL/71399	
7	R1404445-011	B-403	.01	1060mL	8082A/PCB LL	7			2.00mL	yellowcloudy	1.0000 mL/71399	
8	R1404445-013	B-404	.02	1060mL	8082A/PCB LL	7			2.00mL	yellowcloudy	1.0000 mL/71399	
9	R1404445-015	MW-8R	.01	1060mL	8082A/PCB LL	7			2.00mL	orange-opaque	1.0000 mL/71399	
10	R1404445-017	EQUIPMENT BLANK	.02	1060mL	8082A/PCB LL	7			2.00mL	clear-colorless	1.0000 mL/71399	
11	R1404445-019	DUPE X	.01	1060mL	8082A/PCB LL	7			2.00mL	brown-opaque	1.0000 mL/71399	

Spiking Solutions

Name: 8082 Spike 5 ug/mL AR 1260 Inventory ID 70612 Logbook Ref: Expires On: 11/15/2014
Name: 8081/8082 Low Level surrogate 100ppb Inventory ID 71399 Logbook Ref: Expires On: 11/16/2014

Preparation Materials

Eppendorf Pipette Repeater EXT #14 (61350) 2mL Graduated Vials (71402) Sulfuric Acid Reagent Grade. (71054)
Hexanes 95% (71351) Dichloromethane (Methylene Chloride) 99.9% MeCl2 canister (71374) H2SO4
Prepared Tetrabutylammonium hydrogen sulfate (TBA) (71634) Prepared Sodium Sulfate (70845)
Na2SO4

Preparation Steps

Step: Extraction	Step: Concentration	Step: Acid Clean-EPA 3665A	Step: Sulfur Clean-EPA 3660B	Step: Final Volume
Started: 6/16/14 07:02	Started: 6/16/14 20:45 <i>9:15</i>	Started: 6/16/14 15:40	Started: 6/16/14 16:30	Started: 6/16/14 18:05
Finished: 6/16/14 15:00	Finished: 6/16/14 20:16 <i>8:25</i> <i>6/16</i>	Finished: 6/16/14 15:40	Finished: 6/16/14 16:45	Finished: 6/16/14 18:50
By: DMURPHY	By: SGOLBERG	By: SGOLBERG	By: SGOLBERG	By: SGOLBERG
Comments	Comments	Comments	Comments	Comments

Comments:

Reviewed By: *[Signature]*

Date: *6/16/14*

Spike Witness: LPRUNOSKE *[Signature]*

Date: *6/17*

Preparation Information Benchsheet

Prep Run#: 210749

Team: Semivoa GC/DMURPHY

Prep Workflow: OrgExtLLAg(7)

Prep Method: EPA 3510C

Status: Prepped

Prep Date/Time: 6/13/14 06:53 AM

#	Lab Code	Client ID	B#	Amt. Ext	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1406527-01	MB		1000mL	8082A/PCB LL	6			2.00mL	clear-colorless	1.0000 mL/71399	
2	RQ1406527-02	LCS		1000mL	8082A/PCB LL	6			2.00mL	clear-colorless	1.0000 mL/71399; 0.1000 mL/70612	
3	RQ1406527-03	DLCS		1000mL	8082A/PCB LL	6			2.00mL	clear-colorless	0.1000 mL/70612; 1.0000 mL/71399	
4	R1404429-031	MW-11SR-0614	.02	1060mL	8082A/PCB LL	7			2.00mL	yellow-cloudy	1.0000 mL/71399	
5	R1404429-033	MW-12S-0614	.01	950mL	8082A/PCB LL	7			2.00mL	yellow-cloudy	1.0000 mL/71399	
6	R1404429-035	MW-13S-0614	.02	1020mL	8082A/PCB LL	7			2.00mL	clear-colorless	1.0000 mL/71399	
7	R1404429-037	MW-2001-10FBW	.01	1000mL	8082A/PCB LL	7			2.00mL	clear-colorless	1.0000 mL/71399	
8	R1404429-039	MW-14S-0614	.02	980mL	8082A/PCB LL	7			2.00mL	yellow-cloudy	1.0000 mL/71399	
9	R1404429-041	MW-15S-87-0614	.01	1000mL	8082A/PCB LL	7			2.00mL	yellow-cloudy	1.0000 mL/71399	
10	R1404429-043	MW-20-85S-0614	.02	950mL	8082A/PCB LL	7			2.00mL	yellow-cloudy	1.0000 mL/71399	
11	R1404429-045	MW-23-85S-0614	.01	1000mL	8082A/PCB LL	7			2.00mL	yellow-cloudy	1.0000 mL/71399	
12	R1404429-047	MW-27S-0614	.02	970mL	8082A/PCB LL	7			2.00mL	yellow-cloudy	1.0000 mL/71399	
13	R1404429-049	MW-31SR-0614	.01	980mL	8082A/PCB LL	7			2.00mL	brown-opaque	1.0000 mL/71399	
14	R1404429-051	MW-30-0614	.02	970mL	8082A/PCB LL	7			2.00mL	brown-opaque	1.0000 mL/71399	
15	R1404440-001	SP-101	.02	1000mL	8082A/PCB LL	7			2.00mL	white-opaque	1.0000 mL/71399	
16	R1404440-003	SP-104	.02	860mL	8082A/PCB LL	7			2.00mL	yellow-cloudy	1.0000 mL/71399	
17	R1404440-004	SP-106	.02	900mL	8082A/PCB LL	7			2.00mL	yellow-cloudy	1.0000 mL/71399	
18	R1404440-005	SP-107	.02	1020mL	8082A/PCB LL	7			2.00mL	white-opaque	1.0000 mL/71399	
19	R1404440-006	SP-108	.02	1000mL	8082A/PCB LL	7			2.00mL	yellow-cloudy	1.0000 mL/71399	
20	R1404440-007	SP-109	.02	1000mL	8082A/PCB LL	7			2.00mL	yellow-cloudy	1.0000 mL/71399	
21	R1404440-008	SP-110	.02	1060mL	8082A/PCB LL	7			2.00mL	clear-colorless	1.0000 mL/71399	
22	R1404445-001	B-281	.04	1060mL	8082A/PCB LL	7			2.00mL	brown-cloudy	1.0000 mL/71399	
23	RQ1406527-04	R1404445-001 MS	.05	1000mL	8082A/PCB LL	7			2.00mL	yellow-cloudy	1.0000 mL/71399; 0.1000 mL/70612	
24	RQ1406527-05	R1404445-001 DMS	.02	1000mL	8082A/PCB LL	7			2.00mL	yellow-cloudy	0.1000 mL/70612; 1.0000 mL/71399	
25	R1404445-003	B-290	.02	1000mL	8082A/PCB LL	7			2.00mL	yellow-cloudy	1.0000 mL/71399	

Spiking Solutions

Name: 8082 Spike 5 ug/mL AR 1260

Inventory ID 70612

Logbook Ref:

Expires On: 11/15/2014

Name: 8081/8082 Low Level surrogate 100ppb

Inventory ID 71399

Logbook Ref:

Expires On: 11/16/2014

Preparation Materials

Eppendorf Pipette Repeater EXT #14 (61350)

2mL Graduated Vials (71402)

Sulfuric Acid Reagent Grade (71054)

Hexanes 95% (71351)

Dichloromethane (Methylene chloride) 99.9% MeCl₂ canister (71374)

H₂SO₄

Prepared Tetrabutylammonium hydrogen sulfate (TBA) (71193)

Prepared Sodium Sulfate (70845)

Na₂SO₄

Preparation Information Benchsheet

Prep Run#: 210749

Team: Semivoa GC/DMURPHY

Prep Workflow: OrgExtLLAq(7)

Prep Method: EPA 3510C

Status: Prepped

Prep Date/Time: 6/13/14 06:53 AM

Preparation Steps

Step: Extraction	Step: Concentration	Step: Acid Clean-EPA 3665A	Step: Sulfur Clean-EPA 3660B	Step: Final Volume
Started: 6/13/14 06:53	Started: 6/13/14 12:30	Started: 6/13/14 14:05	Started: 6/13/14 16:10	Started: 6/13/14 17:15
Finished: 6/13/14 14:42	Finished: 6/13/14 13:50	Finished: 6/13/14 14:10	Finished: 6/13/14 16:25	Finished: 6/13/14 18:00
By: DMURPHY	By: SGOLBERG	By: SGOLBERG	By: SGOLBERG	By: SGOLBERG
Comments	Comments	Comments	Comments	Comments

Comments:

Reviewed By: [Signature]

Date: 6/14/14

Spike Witness: LPRUNOSKE

Date: 6/16

Chain of Custody

Relinquished By: _____

Date: _____

Extracts Examined

Received By: _____

Date: _____

Yes No